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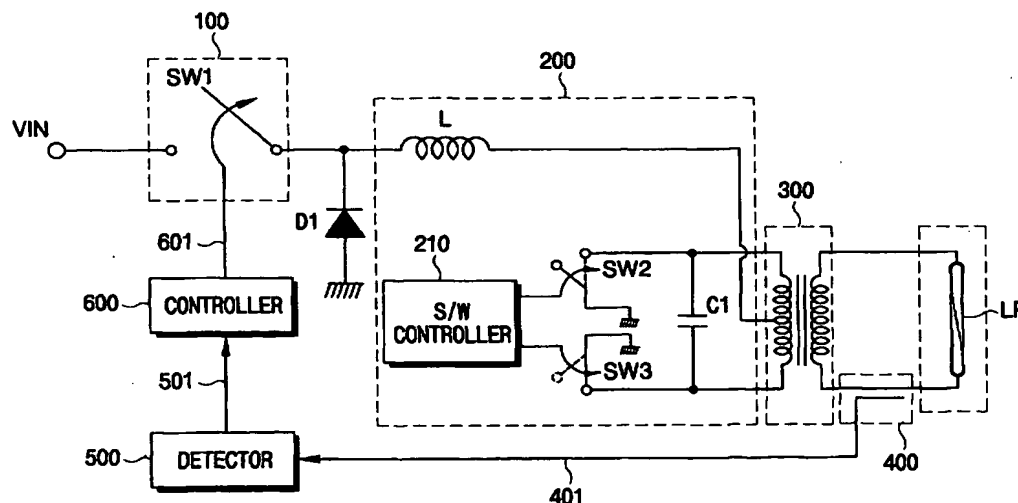
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[Continued on next page]

(54) Title: APPARATUS FOR SUPPLYING POWER, BACKLIGHT ASSEMBLY AND LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME



(57) Abstract: Disclosed are a power supplying apparatus, a backlight assembly and an LCD apparatus having the same. A control section (600) outputs a switching signal (601) so as to control an output of a constant current supplied to a lamp unit (20) in response to on and/or off signals and a dimming signal and a switching section (100) controls an output of a direct current voltage source in response to the switching signal (601). A power outputting section provides an alternating current voltage source having a constant voltage to the lamp unit (20). A sensing section (400) senses variation of a power supplied to the lamp unit (20) and a detecting section (500) compares a sensing signal (401) with a predetermined reference signal to output a detecting signal (501) to the control section (600), thereby maintaining the constant current to be supplied to the lamp unit (20). Accordingly, the LCD apparatus may prevent deterioration of an image and damage of circuit thereof.



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INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H05B 41, G02F 1/133, G09G 3/36, H01J 61, H01J 63

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 09 073989 A (MURATA MANUFACTURING CO) 31 July 1997 (31.07.1997) (abstract). [online] [retrieved on 2004-06-17]. Retrieved from: EPOQUE PAJ Database	1,2,4-10,13, 15-17
Y	US 4933605 A (QUAZI F.S. ET AL.) 12 June 1990 (12.06.1990) <i>abstract; figures 1,6-8 + description.</i>	1,2,4-10,13, 15-17
A	US 6191539 B1 (GREEN J.R.) 20 February 2001 (20.02.2001) <i>abstract; figure 4 + description.</i>	6-9
A	GB 2316246 A (BF GOODRICH AVIONICS SYSTEMC INC.) 18 February 1998 (18.02.1998) <i>abstract; figure 1.</i>	5
A	US 2002/0003525 A1 (HWANG B.Y.) 10 January 2002 (10.01.2002) <i>the whole document.</i>	1,2,4,5,10,13, 16,17

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

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PCT/KR 2003/001695-0

The dependency of claim 15 seems to be wrong. Claim 15 should be dependent on claim 5.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 03/01695-0

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
GB	A	2316246	1998-02-18	FR	A	2752135	1998-02-06
JP	A	73989A2				none	
US	A	20020003 525				none	
US	A	4933605	1990-06-12	WO	A	8906894	1989-07-27
				EP	A	0396621	1990-11-14
				JP	T	3503222T	1991-07-18
US	B	6191539	2001-02-20			none	